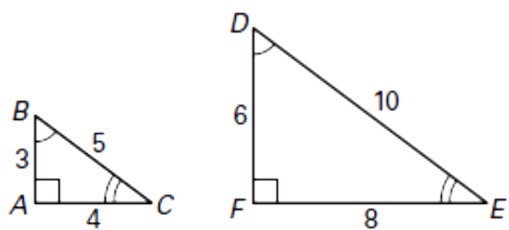


Name _____ Period _____

Geometry Unit 6 Worksheet #5 – Similar Polygons and Scale Factors

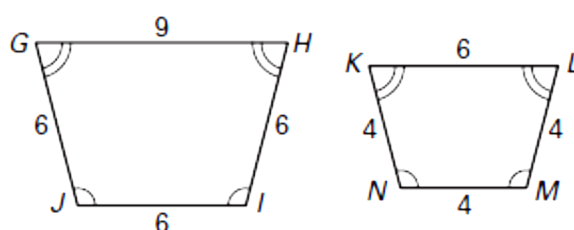
For #1 -6, complete the similarity statement for the pair of polygons. Then find the scale factor.

1)



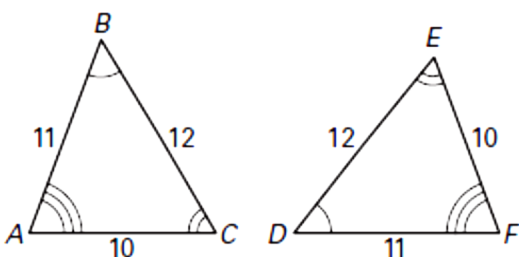
$\triangle ABC \sim$ _____, scale factor _____

2)



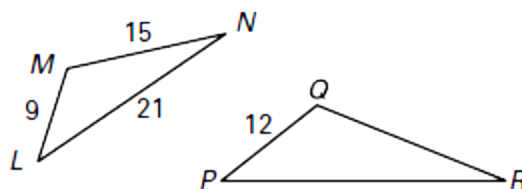
$JGHI \sim$ _____, scale factor _____

3)



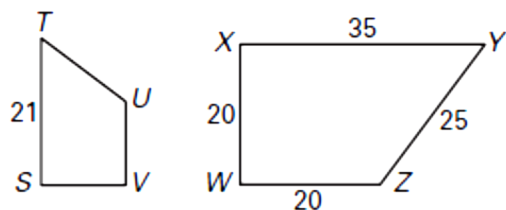
$\triangle ABC \sim$ _____, scale factor _____

4)



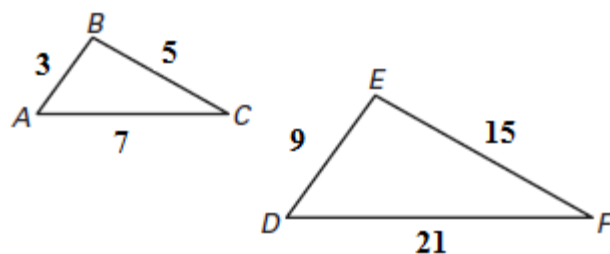
$\triangle LMN \sim$ _____, scale factor _____

5)



$TUVS \sim$ _____, scale factor _____

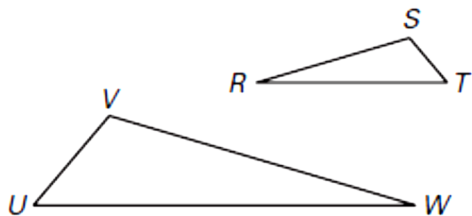
6)



$\triangle ABC \sim$ _____, scale factor _____

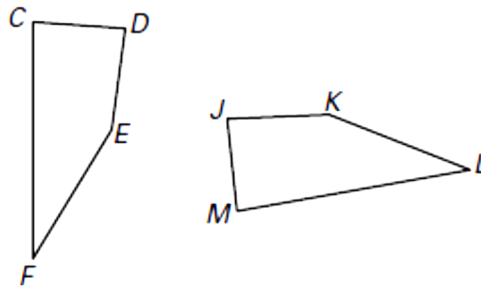
For #7 & 8, using the similarity statement list the angles that are congruent.

7) $\triangle RST \sim \triangle WVU$



$\angle R \cong$ _____, $\angle S \cong$ _____, $\angle T \cong$ _____

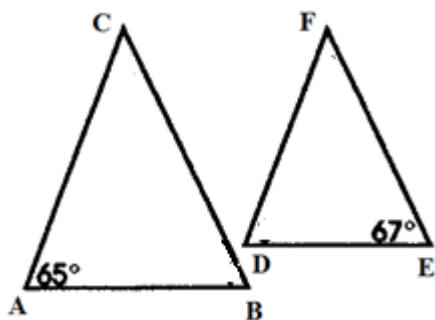
8) $CDEF \sim MJKL$



$\angle C \cong$ _____, $\angle D \cong$ _____, $\angle E \cong$ _____, $\angle F \cong$ _____

For #9 - 11, use the similarity statement to help you solve for the missing angles in the triangle.

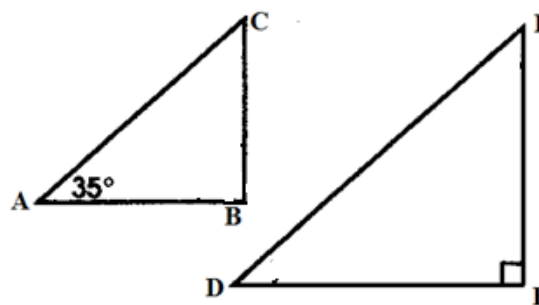
9) $\triangle ABC \sim \triangle DEF$



$\angle B =$ _____ $\angle C =$ _____

$\angle D =$ _____ $\angle F =$ _____

10) $\triangle ABC \sim \triangle DEF$

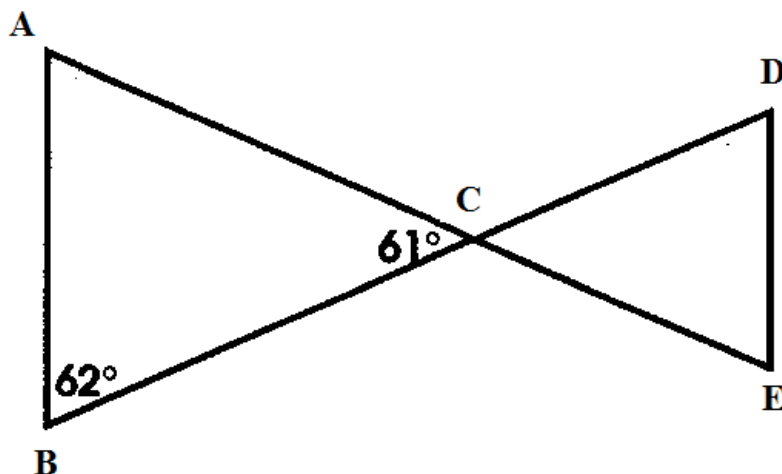


$\angle B =$ _____ $\angle C =$ _____

$\angle D =$ _____ $\angle F =$ _____

11) $\triangle ABC \sim \triangle EDC$

$\angle A =$ _____



$\angle DCE =$ _____

$\angle D =$ _____

$\angle E =$ _____